7-26-14 Chesiquent Liper of Conditing To Water Supertin

	D = D = D = D
intered in NID File	Checked by Chief
intered On S R Sheet	Copy NID to Field Office
seation Map Pinned	Approval Letter 1
Card Indexed	Disapproval Letter
W R fer State or Fee Land	
COMPLETION DATA:	
Date Well Completed C-13-6	O Location Inspected
OW.	Bond released
6Wilhelder OS.	State of Fee Land
	S FILED
Driller's Log 7-8-60	보고한 보고 있었다. 병원 회사에 없는
Electric Logs (No.)	
Emman Immunition Bilimaking	GR GR-N / Micro

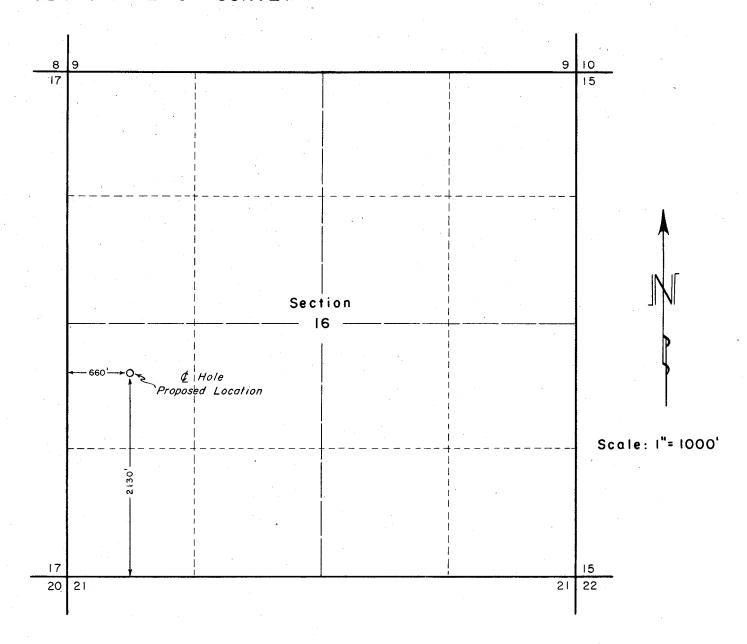
(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian .	Agency	
	Window	Rook
Allottee	Mavaj	0
	. 14-20-	

SUNDR	RY NOTICE	ES AND REPO	ORTS ON WELLS	
NOTICE OF INTENTION TO DRIE	L	SUBSEQUENT	REPORT OF WATER SHUT-OFF.	
NOTICE OF INTENTION TO CHAI	NGE PLANS	SUBSEQUENT	REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST	WATER SHUT-OFF	SUBSEQUENT	REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RED	RILL OR REPAIR WELL	SUBSEQUENT	REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHO	OT OR ACIDIZE	SUBSEQUENT	REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL	L OR ALTER CASING	SUPPLEMENTA	ARY WELL HISTORY.	
NOTICE OF INTENTION TO ABA				
(1)	NDICATE ABOVE BY CHEC	CK MARK NATURE OF REPORT	, NOTICE, OR OTHER DATA)	
			Hay 23	, 19 60
Navajo 'J' Well No. <u>13-16</u> ;	s located 2130	_ft. from ${N \brace S}$ line and	d 660 ft. from $\left\{\begin{matrix} \mathbb{R} \\ \mathbb{W} \end{matrix}\right\}$ line of s	ec. 16
NW SW Section 16	418	25E	SLBM	
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
McElmo Creek		San Juan	Utah	
(Field)		(County or Subdivision)	(State or Territory)	
Propose to dr 5480'.	ill well to t	test Paradox For	mation at a depth of app	roximate
Will set appr circulated to surf		of 13-3/8" com	ductor pipe with eement	
Will set appr to surface.	coximately 100	00° of 8-5/8" sur	rface pipe with cement o	irculate
Will set 5-3" casing will be cem			al production encountere	id. 5-%"
Verbal	approval by	Bill Shoger 5-2	3-60	
I understand that this plan o	f work must receive ap	proval in writing by the Geo	logical Survey before operations may be c	ommenced.
Company The Super	ior Oil Compa	iny		
Address P.O.Drawe	r 'G'			
Cortez. C			\wedge \wedge \wedge \wedge \wedge	*
	olorado		By D.D. Kingman	mon)

CERTIFICATE OF SURVEY



WELL LOCATION: The Superior Oil Co. — Navajo "J" 13-16

Located 660 feet East of the West line and Township 41 South, Range 25 East,

feet North of the South line of Section 16, Salt Lake Base ξ Meridian.

Existing ground elevation determined at 4484 feet based on U.S.G.S. datum.

certify the above plat represents a survey let my supervision and is accurate to the nowledge and belief.

ELMER M. CLARK
Registered Land Surveyor
Utah No. 2307

Revised April 27, 1960

E.M. CLARK & ASSOCIATES
Durango, Colorado

March 2,1960

May 27, 1960

The Superior Cil Company P. C. Drawer, 'G' Cortez, Colorado

Attention: D. D. Kingman, Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo 'J' 13-16, which is to be located 2130 feet from the south line and 660 feet from the west line of Section 16, Township 41 South, Range 25 East, SLEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT, EXECUTIVE SECRETARY

CBF:awg
co: P. T. McGrath, Diet. Eng.
U. S. Geological Survey
Farmington, New Mexico



MCELMO CREEK UNIT #R-23 2130' FWL, 660' FWL NW SW Sec. 16, T41S, R25E San Juan County, Utah

FIELD:

GREATER ANETH

KB: 4497'

DF: 4496' GL: 4483' TD: 5480' PBTD: 5447' TLD: 13.50' TOC: 4215'

SPUDDED:

5-30-60

COMPLETED: 6-23-60

INJECTION ZONE:

Ismay, Desert Creek Zone II

PERFS:

Ismay - 5244-48', 5251-57', 5263-76'

(2 jets/ft)

Zone II - 5344-92', 5395-5402'

(4 jets/ft)

CASING:

13-3/8" 35.6# R-1 & 2 SW, Armco w/ 125 sx

1353'

8-5/8" 24# J-55 R2 8R ST&C w/900 sx

548**0'**

5-1/2" 14# 8R R2 J-55 ST&C w/ 300 sx

5201**'**

TUB ING:

2-3/8" 4.7# J-55 Nulock, w/ TK-75 & sc collars.

PACKER:

Baker Lok-set at 5197'.

PUMP'G EQUIP:

Injection equipment.

WELL HEAD:

6" Series 600 National Type B.

6-23-60

Perf'd 5344-92', 5395-5402', trt'd w/ 8000 gal reg acid. FP 4900#. ISIP 3800#.

11-18-69

Trt'd 5344-5402' w/ 17,000 gal dispersion + 9000 gal 28% acid. FP 1000#, ISIP 0#.

7-8-74

Perf'd Ismay at intervals 5244-76', acidized w/ 5000 gál 28%

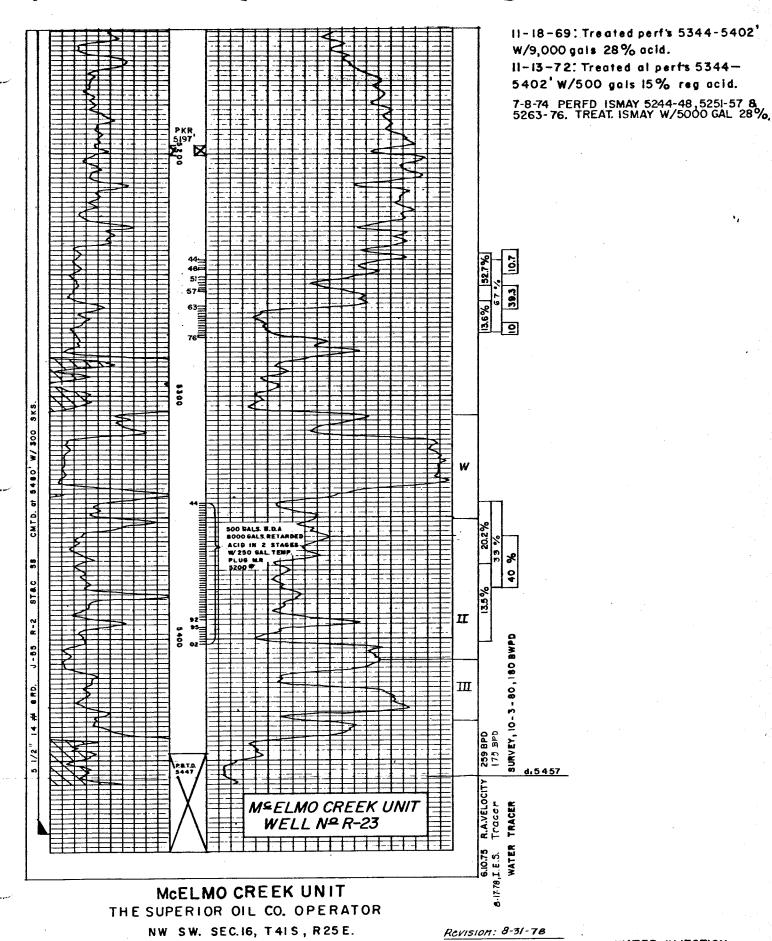
acid.- FP 3500#, ISIP 3400#.

Converted to water injection.

INITIAL WELL TEST

McELMO CREEK UNIT #R-23

DATE	June 27, 1959
OIL BBL/DAY	159
OIL GRAVITY	40.9
· · · · · · · · · · · · · · · · · · ·	
GAS CU.FT/DAY	
GAS-OIL RATIO CU/FT/BBL	•
WATER BBL/DAY	0
HATER BOLJ SIL	
PUMPING/FLOWING	F
TOPII THAT LONGING	
CHOKE SIZE	25/64
CHOIL SIZE	
FLOW TUBING PRESSURE	200



SAN JUAN COUNTY, UTAH.

T.D. 5480

ELEV. 4497 K.B.

WATER INJECTION

Well No. R-23.

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

- (a) Well Data Sheets.
- Plat #1. (b) (1)
 - (2) (3) Well Data Sheets.
 - Well Data Sheets & Logs. (4)
 - The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.
 - ii. Maximum Surface Pressure: 2800 psig. Maximum Rate: 4000 BWPD.

FORMATION	DEPTH	LITHOLOGY
Chinle DeChelly Organ Rock Hermosa Upper Ismay Lower Ismay Gothic Desert Creek Chimney Rock	1300' avg. 2350' avg. 2600' avg. 4400' avg. 5300' avg. 5370' avg. 5450' avg. 5460' avg.	Shale Sandstone Shale Limestone Limestone Limestone Shale Limestone Shale

- (5) (i) A throttling valve is installed on the wellhead to control injection rates and pressures.
 - (ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.
 - (iii) The analysis of injection water is as follows: (as parts per million).

SO4: 25 ppm Ca: 13770 ppm PH: 6.5 H2S: 30 ppm CL: 16700 ppm Mg: 11421 ppm HCO3: 109.8 ppm 5a: Fe: 3 ppm

Specific CaCO3: 18470 ppm CO3: -

Gravity: 1.0553

(3) Cont.

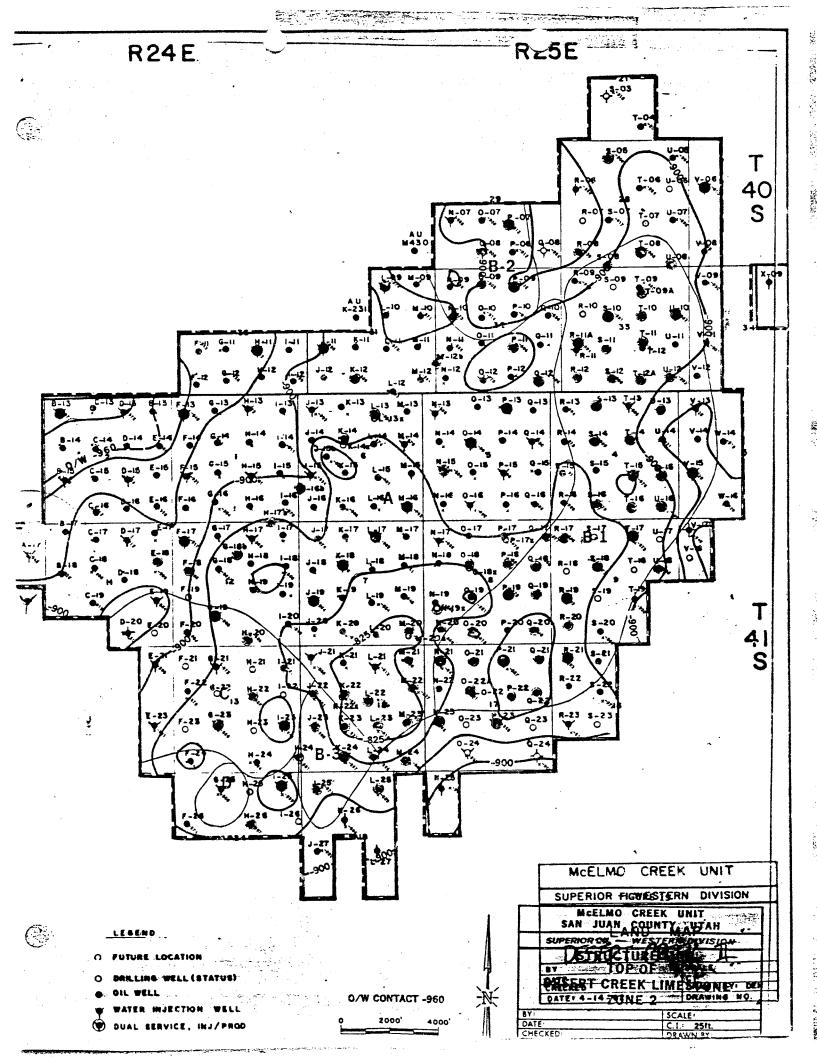
- (iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.
 - (v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.
 - (vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

 PH: 6.6
 Ca: 17410 ppm SO4: 33 ppm
 CL: 34800 ppm Mg: 11518 ppm H2S: 10 ppm
 Fe: 1 5 ppm HCO3: 48.8 ppm Ba: -

Fe: 1.5 ppm HCO3: 48.8 ppm Ba: -CaCO3: 22150 ppm CO3: - Specific

Gravity: 1.0902

- To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.
- (7) N/A.
- (8) The Division will be notified of the date and time to monitor the mechanical integrity test.
- (9) N/A.
- (10) N/A.



CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Sujun	Well No. M Elmo Crube Unit RZ
County: San Juan T 4/5 R 25	E Sec. 16 API# 43-037-15971
•	Well Enhanced Recovery Well
	YES NO
UIC Forms Completed	
Plat including Surface Owners. and wells of available record	Leaseholders,
Schematic Diagram	
Fracture Information	
Pressure and Rate Control	
Adequate Geologic Information	
Fluid Source	Desert Crub - Jung
Analysis of Injection Fluid	Yes No TDS 60,000
Analysis of Water in Formation to be injected into	Yes TDS 70,000
Known USDW in area	Morago-chunle Depth 1300
Number of wells in area of revi	ew 6 Prcd. 5 P&A 0
	Water O Inj. 1
Aquifer Exemption	Yes NA
	Yes No
	DateType
Comments:	
Ω	

Form 9-331 b (April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Age	ncy
	Window Rock
Allottee	Navajo
Lease No	14-20-603-359

	- SUNDRY N	OTICES	AND RE	PORT	S ON WELLS	
NOTICE OF INTE	NTION TO DRILL		SUBSEQU	ENT REPORT	OF WATER SHUT-OFF	
NOTICE OF INTE	NTION TO CHANGE PLAN	S	SUBSEQU	ENT REPORT	OF SHOOTING OR ACIDIZING	
NOTICE OF INTE	NTION TO TEST WATER	SHUT-OFF	SUBSEQU	ENT REPORT	OF ALTERING CASING	
NOTICE OF INTE	ENTION TO REDRILL OR I	REPAIR WELL	SUBSEQU	ENT REPORT	OF REDRILLING OR REPAIR.	
NOTICE OF INTE	INTION TO SHOOT OR AC	IDIZE	1 ()		OF ABANDONMENT	1
	NTION TO PULL OR ALTE		1 1	IENTARY WELL	HISTORY	- X
NOTICE OF INTE	ENTION TO ABANDON WEI	<u> L</u>				
	·	BOVE BY CHECK MA			OR OTHER DATA)	, 19 60
Well No	13-16 is locate	d <u>2130 ft.</u>	from ${S \atop S}$ line	and 66 (ft. from W line of se	ec. 16
NW SW Sc	action 16 nd Sec. No.)	418 (Twp.)	(Range)	(SLBM Meridian)	
	o Creek		an Juan	•	Utah	
	'ield)			alger con green	(State or Territory)	
State names of ar	nd expected depths to ob. Spudded:	jective sands; show ing points, and a	sizes, weights, and ll other importan	d lengths of pro t proposed wo	oposed casings; indicate mudding rk)	; jobs, cement-
	Completed:	6-23-60	n en	erikan di kacamatan di kacamatan Managaran di kacamatan di kacama		
	T.D.:	54801	PBTD:	5447'		
	Casing:	13-3/8"		at 8.	a community making on a second	
	e e e e e e e e e e e e e e e e e e e	8-5/8"		: at 1353		
		5-1/2"	149 set	: at 548()' with 300 sacks	
	$\mathbb{E}^{(n)} : \mathcal{F}_{n,1}(n) \to \mathbb{F}_{n}$		* * * * * * * * * * * * * * * * * * * *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
I understand ti	hat this plan of work mu	st receive approva	l in writing by the	Geological Su	rvey before operations may be co	ommenced.
Company	The Superior	r Oil Compa	usy			
Address	P.O.Drever	<u>'a'</u>	ing sa marang dinang dinang Tanggar panggar panggar Tanggar panggar	The state of the s	ORIGINAL SIGNED BY	
	Cortez, Col	orado		Ву	D. D. KINGMAN	
				Title	D.D.Kingman Engineer	

Electric Log Tops:

De Chelly 2325' Gothic Shale 5284'
Organ Rock 2525' Desert Creek 5306' (-808)
Hermosa 4280' Chimney Rock 5441'
Ismay 5132'

Drill Stem Tests: None

Perforations: 5344'-5392', 5395'-5402'

Treatments: (perfs as above)

6-22-60 500 gallons BDA. Maximum pressure 5200#/2200#

6-23-60 8,000 gallons retarded acid in 2 equal stages using one 250-gallon temporary plug between stages. Maximum pressure 4900#/2200#

Tubing:

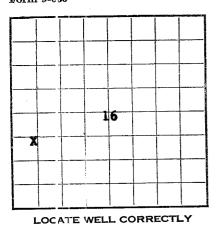
2-1/2" 6.5#	J-55	R-2	8Rd	EUE	bung	5432'
Pump Shoe					. •	5389'
Tubing Anchor	•				•	5324'
R & L Nipple						5318'

10' perf'd pup one joint off bottom with gas anchor. Bottom joint bull plugged.

Initial Production:

6-26-60 Flowed 159 barrels in 24 hours.
40.9° gravity, 0.2% cut, 140#/480#, 25/64" choke

#harm 9-230



U. S. Land Office Santa Fe

Serial Number 14-20-603-359

Lease or Permit to Prospect Navajo

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Compa	nyThe	Sup	rior	Dil Com	any	Addres	s P.O.D	rawer	'G' - Co	rtez.	Colorado
Lessor	or Tract -	_Nav	.ja'J	<u> </u>		Field	McElmo.	Creek	State	Utah	
Well N	o 1:31 6	Sec.	16 T	. 41s. R.	25g Merio	dian	SLBM	Cou	nty	San	Juan
Locatio	n 21.30	$\mathrm{ft.} \left\{ egin{matrix} \mathbf{N}. \\ \mathbf{C}. \end{array} \right.$	of _ s	Line and	d 660 ft.	E. of W	Line of -	Sect1	on 16	_ Elevat	ion _4498_1 or relative to sea level)
Th	e informa	tion g	iven he	rewith is	a complete	and correc	t record o	of the we	and all	work do	one thereon
o far a	s can be	\det	ined fro	om all ava	ilable reco	ned		OR!	BINAL SIGNET	84	
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	July					n of the wel			112 THOUSE		
						60. Finish			une 18		19 60
Jomm	enced dril	ling	ма			S SANDS C					, , .
				OII		enote gas by G		a.J			
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					441		, from		to		
							, from		to		
,						NT WATER	SANDS				
No. 1,	from:			to		No. 3	, from		to		
							, from		to		
,						NG RECO	RD				
Size	Weight	Thre	ads per	Make	Amount	Kind of shoe	Cut and p	ulled from	Perfor From—	ated To	Purpose
casing	per foot			nt in to test	ior water, si	ate kind of m	aterial used	, position,	anu resums	or pampi	ng or bailing.
3. egypte	ciced 2 6 0	t i e it	ork and Ove jt gi	ts results. ze its size a	If therewo	e any change If the well ha	s made in s been d ie	ne casing re ited, gi	-state-fully e date, size	and if ar	Conductor
5-1/2	of the free	test in	portance	to have a c	omplete hist	ory of the well	Please s	use tate in det	ail the date	3392	CC42M2 M32 INT TOTAL Production
				HIS	TORY OF	2-QH:-QB-4	GAS WE	F F	-43094-2 u.	5. GOVERNMENT 240 5	PRINTING OFFICE
-			-	MUDD	ING AND	CEMENT	ING RE	CORD		X-7-1	
Size casing	Where s	set	Numb	er sacks of ce	ment	Method used	Mu	d gravity	Ax	nount of m	ud used
	l·					Circulate	1 1	fana			
3 -3/ 8 8-5/8		-85 ¹		125 900		Circulate					
5-1/2	1 1	4801		300		Pump & pla					
>	-1				PLUGS	AND ADA	PTERS				
Heav	ng plug	-Mater	ial						Depth set		
	ters—Mat					Size					
Auap	DO D TYLAI	/O1 1011		1		TING REC	CORD				

Heaving plug — Material Length Depth set	5-1/2	54801	300	Pump &	plug		
Adapters—Meterial Size SHOTING RECORD Size Shell used Explosive used Quantity Date Depth shot Depth cleaned out TOOLS USED Rotary tools were used from Surface feet to Touch feet to feet, and from feet to feet to DATES The production for the first 24 hours was 159 barrels of fluid of which 99.8% was oil; emulsion; 0.2% water; and % sediment. If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas Rock pressure, lbs. per sq. in. EMPLOYEES TOOLS USED TOULS USED 5480 feet, and from feet to feet to feet, and from feet to feet, and from feet to feet to feet, and from feet)	3.4					th sat
SHOOTING RECORD State Shell used Explosive used Quantity Date Depth shot Depth cleaned out TOOLS USED Rotary tools were used from Surface feet to Gable tools were used from feet to feet, and from feet to							
TOOLS USED State tools were used from Surface feet to feet, and from feet to feet to feet to feet, and from feet to feet t	Adapters—I	Material		Size SHOOTING I	RECORD	•	
Rotary tools were used from Sorface feet to 5480 feet, and from feet to feet to feet, and from feet to feet, and	Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Rotary tools were used from Surface feet to Gable tools were used from feet to Feet to Feet, and from feet to Feet to Feet, and from Feet to Feet to Feet, and from feet to							
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Rotary tools were used from —Sorface feet to — 5480 — feet, and from — feet to — feet to — feet, and from — feet, and from — feet to — feet, and from — fe			-	TOOLS II	-		
Cable tools were used from	Rotary tools	s were used f	rom			, and from	feet to feet
The production for the first 24 hours was		1	1.7	_			
The production for the first 24 hours was				i		,	·
emulsion; -0.2% water; and			, 19	Pt	it to prod	ducingJun	23 , ¹⁹ 60
If gas well, cu. ft. per 24 hours	The pro	oduction for	the first 24 hours	was159	barrels o	f fluid of which	99.8% was oil;%
Rock pressure, lbs. per sq. in. EMPLOYEES Driller Driller FORMATION RECORD FROM- TO- TOTAL FEET De Chelly 2325 Organ Rock 4280 5132 1 Smay 5284 Gothic Shale	emulsion; -c	% water;	and% sedime	ent.		Gravity, °Bé	40.9
FROM— TO— TOTAL FEET FORMATION Electric Log Tops: 2325 2325 2325 2325 2325 2325 2326 2327 2328 2328 2329 2329 2320 2320 2321 2320 2321 2321 2322 2323 2323	If gas v	vell, cu. ft. p	er 24 hours	Ga	lons gas	oline per 1,000 c	u. ft. of gas
	Rock p	ressure, lbs.	per sq. in	1			
FROM— TO— TOTAL FEET FORMATION Electric Log Tops: 2325 De Chelly Organ Rock 4280 Hermosa 5132 Ismay 5284 Gothic Shale			Dr				Deillo
FROM— TO— TOTAL FEET FORMATION Electric Log Tops: 2325 De Chelly 2525 Organ Rock 4280 Hermosa 5132 Ismay 5284 Gothic Shale			1000				
FROM TO TOTAL FEET FORMATION Electric Log Tops: 2325	**************						, Drmer
Electric Log Tops: 2325 De Chelly Organ Rock 4280 Hermosa 5132 Ismay 5284 Gothic Shale	FROM-	то					YON
2325 De Chelly 2525 Organ Rock 4280 Hermosa 5132 Ismay 5284 Gothic Shale							
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5306 (-808) Desert Creek 5441 Chimney Rock							
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FORMATION RECORD—Continued

TOTAL FEET

16-43094-4

FORMATION

FROM-

TO-

	the second secon
	PE also
ATE* n re-	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
	14-20-603-359 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Navajo 7. UNIT AGREEMENT NAME
	McFlmo Creek Unit 8. FARM OR LEASE NAME
<u>.</u>	McElmo Creek Unit
	MCU #R-23 10. FIELD AND POOL, OR WILDCAT
	McElmo Creek Field 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
	NW/4 SW/4
	1 500 16 1/15 1/51

SUBMIT IN TRI

Form 9-331 (May 1963)	Um TED STATES DEPARTMENT OF THE INTE GEOLOGICAL SURVEY
	CHAIDDY MOTICES AND DEDORTS

GEOLOGICAL SURVEY	4-20-603-359 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	Navaio
1. OIL GAS GAS OTHER	7. UNIT AGREEMENT NAME McFlmo Creek Unit
2. NAME OF OPERATOR The Superior Oil Company	8. FARM OR LEASE NAME McElmo Creek Unit
3. ADDRESS OF OPERATOR	9. WELL NO.
P. O. Drawer 'G', Cortez, Colorado 81321 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	MCU #R-23 10. FIELD AND POOL, OR WILDCAT MCE MC Creek Field 11. SEC., T., R., M., OR BLK. AND
2310' FSL & 660' FWL, Sec. 16, T41S, R25E, SLM	11. SEC., T., R., M., OR BER. AND SURVEY OR AREA NW/4 SW/4 Sec. 16, T4 S, R25E
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4498	12. COUNTY OF PARISH 13. STATE San Juan Cty. Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASING TEST WATER SHUT-OFF ALTERING CASING FRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT ABANDONMENT* SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE CHANGE PLANS REPAIR WELL (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This workover consisted of a super frac and acidizng of existing Desert Creek perforations, 5344-54021.

Pulled production equipment and set packer at 5224', tubing tail at 5232'. 11/17/69 Treated with 3000 gal crude followed in succession and without loss of pressure 11/18/69 by 9114 gal dispersion at 5 BPM, 6200 psi, 9,000 gal 28% acid at 12.5 BPM, 4900 psi and 2,500 gal water at 6 BPM, 1100 psi. ISIP - 0 psi, returned well to production.

125 BO and 19 BWPD (13% cut). 11/20/69

11/25/69 42 BO and 0 BWPD.

12/1/69 66 BO and 0 BWPD.

18. I hereby certify that the foregoing is true and correct SIGNED Ningman	TITLE D. D. Kingmar	DATE 1/7/70
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

OGC/njh

m 9–331 ny 1963)	U)ED STATES	SUBMIT IN TRIL ATE*	Form approved, Budget Bureau No. 42-R1424
DEPART	TMENT OF THE INTERIC GEOLOGICAL SURVEY	/K verse side)	5. LEASE DESIGNATION AND SERIAL NO.
CUNDRY NO	TICES AND REPORTS O	N WFIIS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this form for proj	cation for permit—" for such project	ck to a different reservoir.	Na.aa
Ose Arrai	OATION TOWN DAMAS		Navajo 7. unit agreement name
WELL GAS OTHER			McFlmo Creek Unit
NAME OF OPERATOR The Superior Oil Com	nanv		O. Zakii Vii Dailoz Nari-
ADDRESS OF OPERATOR	·		9. WELL NO.
P. O. Drawer 'G', Con	rtez, Colorado clearly and in accordance with any S	tate requirements.•	MCU #R-23 10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	deany was in accordance with 127		McElmo Creek Field 11. sec., T., R., M., OR BLK. AND
2130' FSL & 660' FWL	, Sec. 16, T41S, R25E,	SLM	NW SW Sec. 16, T41S, R
PERMIT NO.	15. ELEVATIONS (Show whether DF, I	rr, gr, etc.)	12. COUNTY OR PARISH 13. STATE
	4497' KB		San Juan Utah
Check A	Appropriate Box To Indicate No	iture of Notice, Report, or O	ther Data
NOTICE OF INT	ENTION TO:	Uparaur	ENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL ALTERING CASING
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ABANDONMENT*
SHOOT OR ACIDIZE	ABANDON* CHANGE PLANS	(Other)	
nent to this work.) *		Completion or Recomple details, and give pertinent dates, ons and measured and true vertica	
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*See Instructions on Reverse Side cc: State, USGS, Franques, Mosley, Hurlbut, WIO, File

Form 9-331 (May 1963)	
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U. ED STATES SUBMIT IN TRI (Other instruction verse side)

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	GEOLOGICAL SURVEY		14-20-603-35	
SUNDRY NO (Do not use this form for propulse "APPLIC	TICES AND REPORTS (osals to drill or to deepen or plug leation for PERMIT—" for such p	ON WELLS back to a different reservoir. proposals.)	6. IF INDIAN, ALLOTTER Navajo	
OIL GAS OTHER			7. UNIT AGREEMENT NAS	
2. NAME OF OPERATOR			8. FARM OR LEASE NAME	
The Superior Oil Compa	iny		9. WELL NO.	
3. ADDRESS OF OPERATOR P. O. Drawer 'G', Cort 4. LOCATION OF WELL (Report location	tez, Colorado 81321	Chata regularments *	MCU #R-23	WILDCAT
4. LOCATION OF WELL (Report location See also space 17 below.) At surface	clearly and in accordance with any	State requirements.	Greater Anet	g Barra Argin
2130' FSL, 660' FWL, S	Section 16		11. SEC., T., R., M., OR BI SURVEY OR AREA	LK. AND
		R Dm CD oto \	Sec. 16, T41	
14. PERMIT NO.	15. ELEVATIONS (Show whether DI	r, ar, ea, eac.)	San Juan	Utah
16. Check A	Appropriate Box To Indicate N	Nature of Notice, Report, or (Other Data	
NOTICE OF INTE	INTION TO:	SUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CA	
SHOOT OR ACIDIZE	ABANDON* CHANGE PLANS	(Other)		
(Other) Convert to Wat	ter Injection X	Completion or Recomp	s of multiple completion of eletion Report and Log for	m.)
17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct	PERATIONS (Clearly state all pertiner tionally drilled, give subsurface loca	at details, and give pertinent dates ations and measured and true vertice	, including estimated date al depths for all markers	of starting an and zones perti
nent to this work.)*				
1. Perforate Ismay 5%	244-48, 5251-57, and	5263-76 with 2 JPF.	지는 경기에 함께 되었다. 기계 대표 기계	
2. Set retrievable B	ridge Plug at 5320'.		ROVED BY DIVIS & GAS CONSERV	The state of the s
3. Stimulate Ismay w	ith 5000 gal 28% acid	l. DAT	E APR 1 1 197	74
4. Test Ismay inject	ivity.	BY:	NAPRA 1-18	Joseph
5. Pull Bridge Plug.		L Fre		
6. (a) If Ismay inj injection wi	ection is satisfactor th two strings of tub	ry, dual complete for ping.	Ismay and Dese	rt Creek
(b) If Ismay inj injection th	ection is unsatisfact rough a common string	cory, commingle Ismay g of tubing.	and Desert Cree	ek for
18. I hereby certify that the foregoing	is true and correct			4 7 2 2
SIGNED 1-L. Sall	TITLE	Engineer	DATE 4	/8/74
(This space for Federal or State of	ffice use)			
	ŤITLD		DATE.	
APPROVED BY				\$ 33
cc: USGS (4), State (등학교 등의 시작을이다. 기계 기계 기		
Franques, Mosley, File 4/8//4	Hurlbut, *See Instruction	ns on Reverse Side		
TILE T/O//T				

(This space for Federal or State office use) APPROVED BY	DATE
SIGNED D. D. Kingman TITLE District Engineer	DATE 7/26/74
18. I hereby certify that the foregoing is true and correct	
00001211 1446 - 1000 BWFD at 2000 ps1.	
Injection rate - 1060 BWPD at 2050 psi.	Zone II injection.
Pulled BP and put well on commingled Ismay and Desert Creek	
Acidized Ismay perfs with 5000 gals 28% acid. MP 3500 psi.	Ini. rate 3 RPM
Perforated Ismay 5244-48, 5251-57' and 5263-76' with 2 jets	per ft.
Set BP above existing perfs (D.C. Zone II).	
	vertical depths for all markers and zone
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent proposed work. If well is directionally drilled, give subsurface locations and measured and true	results of multiple completion on Well ecompletion Report and Log form.) dates, including estimated date of starti
REPAIR WELL CHANGE PLANS (Other) CONVEYS	ion to Water Injection
SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZIN	Additing Casing
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
NOTICE OF INTENTION TO:	or Other Data Subsequent report of:
Check Appropriate Box To Indicate Nature of Notice, Report	San Juan Uta
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Sec. 16, T415, R25 12. COUNTY OF PARISH 13. STA
2130' FSL & 660' FWL	McElmo Creek Field 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCA
P. O. Drawer 'G', Cortez, Colorado 81321	9. WELL NO. MCU #R-23
The Superior Oil Company 3. ADDRESS OF OPERATOR	McElmo Creek Unit
WELL WELL OTHER WIW 2. NAME OF OPERATOR	McElmo Creek Unit
OIL GAS	Navajo 7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	
SOLANKI MONTEL WILL REDUDIC VICTORIO	
SUNDRY NOTICES AND REPORTS ON WELLS	5. LEASE DESIGNATION AND SER 14-20-603-359 6. IF INDIAN, ALLOTTED OR TERE

RLH/njh

*See Instructions on Reverse Side
cc: USGS. State, Franques, Mosley, Nav. Tribe, WIO, File

BUR	UNI STATES THE INTERI	6 IR INDIAN ALLOCTER OF TRUE NAME
SUNDRY NC (Do not use this form for pro Use "APPL	OTICES AND REPORTS ()posals to drill or to deepen or plug b "ICATION FOR PERMIT—" for such pr	ack to a different reservoir. NAVAJO
OIL GAS OTHER	. INJECTION W	
2. NAME OF OPERATOR	DANV	8. FARM OR LEASE NAME
SUPERIOR OIL COMP	ANT	9. WBLL NO.
P. O. DRAWER 'G'	, CORTEZ, COLORADO 8132	1 #R-23
4. LOCATION OF WELL (Report locatio See also space 17 below.) At surface	n clearly and in accordance with any	GREATER ANETH
2130' FSL, 660' F	FWL, SECTION 16	11. SBC., T., R., M., OR BUE. AND SURVEY OF AREA SEC. 16. T415, R25E, SLM
14. PERMIT NO.	15. ELEVATIONS (Show whether DF KB: 4498'	
16. Check	Appropriate Box To Indicate N	ature of Notice, Report, or Other Data
NOTICE OF IN	• •	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) t details, and give pertinent dates, including estimated date of starting any
-17-85: MIRU. Bled well-18-85: RIH w/ bit, sc pkr & 2-7/8" t -19-85: Tagged bottom Drilled out to -21/22-85: Selectively a Creek (5344'-5-23-85: Flowed well24/2-4-85: Ran CO2 inj wellhead. RDM	l down. ND wellhead. raper & 2-7/8" workstr bg. at 5360' (81' high). Point of the L. Ismay point of the L. Ism	erfs (5244'-76' O/A) & Desert
		RECEIVED
		FEB 1 1 1985
		DIVISION OF OIL GAS & MINING
SIGNED	Office use)	rations Engineer 2-7-85 La Marage DATE 2/19/85

*See Instructions on Reverse Side

form 3160-5 dovember 1983) Formerly 9-331)	DEPARTMENT	STATES TOF THE INTERI		TE: E:	orm approved. Idget Bureau No. 1004-01 Ipires August 31, 1985 Besinnation and sealal #
		LAND MANAGEMENT		•	20-603-359
		AND REPORTS C drill or to deepen or plug b FOR PERMIT—" for sock pr			
	. O OTHER CA	THODIC PROTECTION			LMO CREEK
SUPER		, through its Agen	t, MOBIL OIL CO	RP. MCE	LMO CREEK
	DRAWER 'G', CO	RTEZ, COLORADO 813		9. WALL R-2	
See also space 17	, (Report location clearly below.)	and in accordance with any	ME TO EN	10. F18 GRE	ATER ANETH
2130'	FSL, 660' FWL,	NWSW	NOV 2 2 1985		16, T41S, R25E,
14. PERMIT BO. 43-0	37-15977	SERVATIONS (Show prioritor or 4483 GL	GAS & MINING		JUAN TIAH
PRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	M UETTI ABANDO (CHANGI	DE ALTER CABING PLE COMPLETE ON* C Protection System	PRACTURE STRATMS SECONDES OR ACED (Other) (NOTE: Repo	BING	ARAMDONMENTO ARAMDONMENTO Die completion on Well
electrified ca	thodic protecti	, Agent for Superi on system consisti which has a lead o	ing of a subsurf	ace graphite	anode bed connect
area of the we	ell location. A	of a trench, 140' 11 construction wi 1 power to the wel	11 be confined	to existing	disturbed area of
	And the second second				
SIGNED	that the foregoing is true		Regulatory Coord	inator	11/15/85
APPROVED BY	Federal or State office spe			2,0 (
	F APPROVAL, IF ANY:	WHITE M	2 Maring		AV. 12-3-86

DEPARTMENT OF NATURAL RESOURCES

	DIVISION OF OIL, GAS	S, AND MINING	DECENT	5. LEASE DESIGNATION AND SERIAL N
Do not use this form for	NOTICES AND RE	nes on sine bear se	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NA
EL UAS []	INJECTION			7. UNIT AGRESMENT NAME MCELMO CREEK
	CORP AS AGENT (OF SUPERIO	DIVISION OF R DILGAS & MINII	T A MANAGE OF TRACE WAME
DDRESS OF OPERATOR	JER 'G', CORTEZ			8. WELL NO. R-23
OCATION OF WELL (Report lo			requirements.	GREATER AND POOL, OR WILDCAT
2130′ FSLy	660′ FWL			11. eBC., T., B., M., OR BLE. AND SURVEY OF AREA Sec 16, T41S, R25E
PERMIT NO.	15. BLEVATIONS (SE	ow whether OF, RT, GR	, etc.)	12. COUNTY OR PARISH 18. STATE
43-037-1597	7 DF: 4	4961		SAN JUAN UTAH
Che	ick Appropriate Box To	Indicate Nature		
NOTICE O	P INTENTION TO:		4084	SQUENT ESPORT OF:
TEST WATER SEUT-OFF PRACTURE TREAT SHOOT OR ACIDIZE	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON®	c		REPAIRING WELL ALTERING CASING ABANDONMENT*
REPAIR WELL	CHANGE PLANS		Manne . Depost Post	ilts of multiple completion on Well
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Mobil Oil Corporation

P.O. BOX 5444 DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Attn: R. J. Firth

Associate Director



DIVISION OF OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with <u>Mobil Exploration and Producing North America Inc. (MEPNA)</u>, which is also a wholly cwned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

CNE/rd CNE8661

R. D. Baker Environmental Regulatory Manager

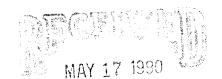
WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2) FOR THE CORTEZ SUPERVISOR AREA FOR THE GREATER ANETH FIELD 05/13/86

						2				
PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC TWNSHP RNG	TYP TYP	Ē Ā	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT HUMSER
MC ELHO CREEK	N-11	SAN JUAN	UT	NW SE 32-40S-25E	LKI	0P	43-037-15965	14-20-603-372		96-004190
	N-13 V	MAUL MAZ	UT	NW NW 05-415-25E	LWI	QP	43-037-15966	14-20-603-372		96-004190
	N-15	MAUL MAZ	ÜT	SW NW 05-415-25E	INJ	02	43-037-05671	14-20-603-372		96-004190
	N-17V	MAUL MAZ	UT	NW NW 08-413-25E	LNI	OP	43-037-05597	14-20-603-263		96-004190
	N-19~	∕SAN JUAN	บา	NW SW 08-413-25E	LKI	96	43-037-05540	14-20-603-263		96-004190
	N-21 V	MAUL MAZ	UT	MW MW 17-418-25E	INJ	GP	43-037-05492	14-20-603-263		96-604190
	N-23 🗸	NAUL MAZ	UT	NW SW 17-415-25E	INJ	OP	43-037-16364	14-20-603-263	-	96-004190
	0-12	SAN JUAN	UT	SE SW 32-408-25E	LMI	OP	43-637-16371	14-20-603-372		96-004190
	0-14 ~	SAN JUAN	UT	SE NW 05-41S-25E	LMI	OP	43-037-16365	14-20-603-372		76-004190
	0-16	SAN JUAN	UT	SE SW 05-415-25E	LMI	OP	43-037-15969	14-20-603-372		96-004190
	0-18	SAN JUAN	IJŢ	SE NW 08-415-25E	LMI	OP	43-037-05585	14-20-603-263		76-004170
	P-07 ✓	MAUL MAZ	UT	NW SE 29-403-25E	LMI	OP	43-037-05828	I-149-IND-8839-A		96-604190
	P-09 🗸	MAUL MAZ	UT	NW NE 32-408-25E	LHI	95	43-037-16367	14-20-603-372		76-004170
	P-11 V	MAUL MAZ	UT	NW SE 32-405-25E	LMI	OP	43-037-15971	14-20-603-372		96-004190
	P-13 V	SAN JUAN	IJΤ	NU NE 05-415-25E	LMI	OP	43-037-16368	14-20-603-372		96-004190
	P-15-	SAN JUAN	UT	NW SE 05-413-25E	LWI	GP	43-637-16340	14-20-603-372		96-004190
	P-17 V	SAN JUAN	UT	NW NE 08-415-25E	LMI	OP	43-037-15976	14-20-603-263		96-004190
	P-19 V	MAUL MAZ	UT	NW SE 08-415-25E	INJ	OP	43-037-05555	14-20-603-263		96-004190
	P-21	SAN JUAN	UT	NW NE 17-418-25E	LĸI	62	43-937-95487	14-20-603-263		96-004190
	P-23√	SAN JUAN	UT	NW SE 17-41S-25E	INJ	OP	43-037-16370	14-20-603-263		96-004196
	Q-12	NAUL MAZ	ับโ	SE SE 32-408-25E	LMI	OP	43-037-05720	14-20-603-372	,	96-004199
	Q-14	SAN JUAN	UT	SE NE 05-415-25E	IHJ	OP	43-037-15974	14-20-603-372		96-004190
	Q-16	MAUL MAZ	UT	SE SE 05-418-25E	LMI	OP	43-037-15975	14-20-603-372		96-004190
	R-117	SAN JUAN	UT	NALSW 33-408-25E	INJ	SI	43-037-05741	14-20-603-2057		96-004190
		SAN JUAN	UT	NU SW 33-405-25E	LĸI	٦P	43-037-30179	14-20-603-2057		96-004190
	R-13	MAUL MAZ	UT	HW NW 04-418-25E	LMI	OF	43-037-05709	14-20-603-2057		96-004190
	R-17 🗸	SAN JUAN	IJ٢	HW NU 09-418-25E	IiIJ	OP	43-037-05602	14-20-603-359		96-004190
		MAUL MAZ	ÜT	NW SW 09-415-25E	INJ	6F	43-037-65554	14-20-603-359		96-004190
		SAN JUAN	UT	NW-NW 16-415-25E	INI	OP	43-037-16374	14-20-603-359		96-094190
•	R-23 🔻	MAUL MAZ	UΤ	NW SW-16-415-25E	INJ	OF	43-037-15977	14-20-603-359		96-004196

CO2 inj. Feb. 85

UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR:	MEPY	A	·	· · · · · · · · · · · · · · · · · · ·		
FIELD: Great	er f	Ineth		LEASE:	McElmo Creek	\$
WELL # R-2	3			SEC16	TOWNSHIP 41 S RANGE	25 E
STATE FED F	EE DEPT PBT	H <u>5480</u> D <i>5447</i>	TYP wat	E WELL IN en Tracer 2	J W MAX. INJ. PRESS.	2800 ps
TEST DATE	9/9/8	6				
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE	133/8	85'	125 sx		Injecting CO2	
INTERMEDIATE	85/8	1353	900 sx		No rate at time	
PRODUCTION	51/2	5480	300 s x	0#		
			· ·		•	
TUBING	23/8			2700#		
Bake	n LOK-S	et at	5197			
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS ':	FUTURE
SURFACE	·					
INTERMEDIATE			· 			·
PRODUCTION		445				
TUBING						
• • .						
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE				-		
INTERMEDIATE				`		
PRODUCTION						
TUBING						**************************************



5. Lease Designation &

Serial No.

4303715977

UNITED STATES DEPARTMENT OF THE INTERIOR

BURRAU OF LAND MANAGEMENT

CONDITIONS OF APPROVAL, IF ANY:

SUNDRY MOTICES AND REPORTS ON WELLS	6.	If Indian, Allottee or TonAVAJO	ribe Name	
1. Oil Well /_/ Gas Well /_/ Other: Injection Well	7.	Unit Agreement Name McRLMO CREEK UNIT		
2. Name of Operator MOBIL OIL CORPORATION	8.	Farm or Lease Name		
3. Address of Operator	9.	Well No.		
P. O. DRAWER G, CORTEZ, CO. 81321 4. Location of Well	10.	R-23 Field and Pool, or Wilder	at	
		GREATER ANETH	•	
2130° FWL, 660° FWL SEC 16, T415, R25E	11.	Sec. T,R,M or BLK and Survey or Area MW/SW SEC 16, T415, R25E		
14. Permit No. 15. Elevations (DF, RT, GR) 93-037-15-977 DF 4496'	12.	County, Parish 13. SAN JUAN	State UTAN	
16. CHECK APPROPRIATE BOX TO INDICATE MATUR Notice of Intention To: Test Water Shut-off /_/ Pull or Alter Casing /_/ Fracture Treat /_/ Multiple Complete /_/	Subseque Water Shut-off Fracture Treat	nt Report of: /_/ Repairing Well ment /_/ Altering Casin	ng //	
Shoot or Acidize /_/ Abandon * /_/ Repair Well /_/ Change Plans /_/ (Other) TEMPORARILY ABANDON /_/	(Other) (NOTE: Report	<pre>xing /_/ Abandonment * /_/ results of multiple compl n or Recompletion Report ;</pre>	letion on	
17. Describe Proposed or Completed Operations (Clearly including estimated date of starting any proposed work. locations and measured and true vertical depths for all Mobil Oil Corporation requests permission to temporarily	If well is dire markers and sone	ctionally drilled, give so pertinent to this work)	ubsurface ‡	
due to poor injection performance. The well will be rew A decision on this well should be made before the end of		er or plug and abandonment	01.7	
W decipion on ento sell phonic he made perole one end of	, this year.		STN	<u> </u>
		GLH	A-JES V	11- GLAV
		DJJ	DTG	SLS
		BGH		
18. I hereby certify that the foregoing is true and cor	rect	MICROFILM		
		FILE	3-TAS	11
Signed: M. T. Balog Tit	le: <u>Staff Operat</u>	ons RogineerDate:5/	10/91 J. MICE	ROFILM
V			4-UIC	FILE
(This space for Federal or State office use)		***************************************		
APPROVED BYTIT	LE:	DATE:		

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0135

Expires: March 31, 1993 5. Lease Designation and Serial No.

14-20-603-359 6. If Indian, Allottee or Tribe Name

Dispose Water

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

SUBMIT IN TRIPLICATE

Use "APPLICATION FOR PERMIT—" for such proposals

NAVAJO TRIBAL 7. If Unit or CA, Agreement Designation

1. Type of Well		+
Oil Gas Well Other Thiectic		McELMO CREEK
2. Name of Operator	on well	8. Well Name and No.
MOBIL OIL CORPORATION		R-23
	ration & Producing U.S. Inc.	9. API Well No.
P.O. Box 633 Midland	Texas 79702	43-037-15977
4. Location of Well (Footage, Sec., T., R., M., or Survey E	(Acception)	10. Field and Pool, or Exploratory Area
o with the state of bally by	(Assertation)	GREATER ANETH
2130' FWL, 660' FWL	Sec. 16, T41S, R25E NWSW	11. County or Parish, State
12. CHECK APPROPRIATE DOW		SAN JUAN, UTAH
TECH APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent		
- Notice of Intent	Abandonment	Change of Plans
<u> </u>	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	
		Conversion to Injection

status (Note: Report results of m 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, Completion or Recompletion Report and Log (erm.) give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Mobil requests permision to extend TA status. This well is being evaluated for convertion to a producer.

JUL 1 8 1991

DIVISION OF OIL GAS & MINING

4. I hereby sertify that the foregoing is true and correct Signed	Title	A DIT TO THE AND THE TO THE AND THE TO THE AND THE TO THE AND THE TOTAL THE AND THE TOTAL THE AND THE	7-12-91
(This space for Federal or State office use) Approved by Conditions of approval, if any:	Title		Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or frauduless as

Form 3160-5 (June 1990)	DEPARTMEN BUREAU OF I SUNDRY NOTICES s form for proposals to dr	TED STATES IT OF THE INTERIOR LAND MANAGEMENT AND REPORTS ON WELLS III or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No. 14-20-603-359 6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
1. Type of Well	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation MCELMO CREEK
	as Other INJECTION	WELL	8. Well Name and No. R-23
3. Address and Telepho P O BOX 633,		(915) 688-2585	9. API Well No. 43-037-15977 10. Field and Pool, or Exploratory Area GREATER ANETH
2130' FWL,	660' FWL SEC. 16, T4	15, R25E NWSW	11. County or Parish, State SAN JUAN, UTAH
12. CHEC	K APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE	OF SUBMISSION	TYPE OF ACTION	We-785
	ce of Intent sequent Report	Abandonment Recompletion Plugging Back	Change of Plans New Construction Non-Routine Fracturing
Fina	al Abandonment Notice	Casing Repair Altering Casing Other EXTENSION FOR T.A. STATUS	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well
give subsurface	locations and measured and true vertic	pertinent details, and give pertinent dates, including estimated date of starting at depths for all markers and zones pertinent to this work.)* A STATUS. THIS WELL IS BEING EVALUATED FOR	

7-14-92 Jankeus

JUL 0 8 1992

DIVISION OF OIL GAS & MINING

Signed Stuley Od BHIRLEY TODD	Title ENVIR. & REG. TECH	Date 7-2-92
(This space for Federal or State office use)	*1	
Approved by	Title	Date

Form (June	3160-5

App.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

PUKM APPKUYED						
Budget Bureau No. 1004-0135						
Expires: March 31, 1993						
Lease Decignation and Social No.						

14-20-603-359

6. If Indian, Allottee or Tribe Name

UNDRY NOTICE	S AND REF	ORTS ON	WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

NAVA IO TRIBAL

USE APPLICATION FO	NAVAJO INIBAL	
SUBMI	7. If Unit or CA, Agreement Designation MCELMO CREEK	
1. Type of Well		
Oil Gas X Other INJECTION	MELL	8. Well Name and No.
2. Name of Operator	FEB 1 2 1993	R-23
MOBIL OIL CORPORATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9. API Well No.
3. Address and Telephone No.	1.6	43-037-15977
P O BOX 633, MIDLAND TX 79702	(915) 688–2585	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey E	Description)	GREATER ANETH
2130' FWL, 660' FWL SEC. 16, T	11. County or Parish, State	
√		SAN JUAN, UTAH
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing Other EXTENSION FOR T.A.	
	I IA I Debas EA I ENGLIN EUR TEA.	Dispose Water

give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOBIL REQUESTS PERMISION TO EXTEND TA-STATUS. THIS WELL IS BEING EVALUATED FOR CONVERTION TO A PRODUCER. Shut In

THIS APPROVAL EXPIRES WILL 0.9. 1993

14. I hereby certify that the folgoing is true and correct Signed Signed Od SHIRLEY TODD	Title ENVIR. & REG. TECH	Date 7-2-92
(This space for Federal or State office use)		APPROVED
Approved by	Title	AREA MANAGER

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No. 14-20-603-359

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

NAVAJO TRIBAL

SUBMIT IN TRIPLICATE		7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT
1. Type of Well Gas Well Other INJECTION	(915) 688–2585	8. Well Name and No. R-23 9. API Well No. 43-037-15977 10. Field and Pool, or Exploratory Area GREATER ANETH 11. County or Parish, State
		SAN JUAN, UTAH
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Operations (Clearly state a	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other SHUT-IN EXTENSION	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

MOBIL REQUESTS PERMISSION TO EXTEND SHUT-IN STATUS. THIS WELL HAS BEEN EVALUATED FOR PLUG AND ABANDONMENT FOR 4TH QUARTER 1993.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 6-22-43
BY: JAN patthews



JUN 2 1 1993

DIVISION OF O'L GAS & MINING

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Expires: March 31, 1993

5. Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

NAVAJO TRIBAL

14-20-603-359

6. If Indian, Allottee or Tribe Name

SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT
1. Type of Well Oil Well Well Well Other INJECTION \ 2. Name of Operator MOBIL EXPLORATION & PRODUCING U.S.		8. Well Name and No. R-23 9. API Well No.
3. Address and Telephone No. P O BOX 633 MIDLAND, TX 79702 4. Location of Well (Footage, Sec., T., R., M., or Survey December 1971)	(915) 688-2585	43-037-15977 10. Field and Pool, or Exploratory Area GREATER ANETH
4. Location of Well (Footage, Sec., T., R., M., or Survey D. 2130' FSL, 660' FWL SEC. 16, T415	S, R25E	11. County or Parish, State SAN JUAN, UTAH
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHMENTS



ACCEPTED BY THE STATE
OF UTPAH DIVISION OF
OIL, GAS, AND VANING
DATE: 9/24/93

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct Signed SHIRLEY TODD	Title ENV. & REG. TECHNICIAN	Date 9-16-93
(This space for Federal or State office use) Approved by Conditions of approval, if any:	Title	Date

McElmo Creek Unit R-23 Uneconomical Well

PLUG AND ABANDONMENT PROCEDURE

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

- 1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navajo EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
- MI workover ria. Load well with lease water. If well is not dead. 2. use 10 ppg brine. NU and PT BOP's. Pressure 5-1/2" casing to 1000 psi and bleed off three times to assist in retrieving packer. 35,000 lbs tension over string weight and shear out Baker FH packer at 5119'. Rotate to the right 15 turns to release snap latch in Baker Model D packer at 5225'. Circulate hole to 10 ppg brine if necessary. POH laying down 2-3/8", 4.7 lb/ft J-55 EUE 8rd plastic Install thread protectors on tubing while laying coated tubing. down. Transport tubing to Mobil's Aneth field pipe yard. If packer does not come free. RIH with jet cutter on wireline and cut 2-3/8" tubing below FH packer and try to pull packer free. If packer still does not come free, make a chemical cut 1 joint above packer, POH laying down tubing. PU overshot, jars , and drill collars on 2-7/8" workstring and jar packer out of hole. RIH with 4-3/4" bit without nozzles, casing scraper for 5-1/2", 14 lb/ft casing and bulldog bailer on 2-7/8" workstring to top of Baker D packer at 5225' or to the top of fish. Pump into 5-1/2" casing to confirm that fluid can be pumped past Baker Model D packer. POH. RU wireline unit. RIH with cement retainer on wireline and set at 5030' EL. POH. RD RIH with star-quide stinger and 500' of 2-3/8" CS wireline unit. Hydril tailpipe on 2-7/8" workstring. Sting into cement retainer and pressure test backside to 200 psi and monitor. Establish an injection rate of 1-2 BPM using lease water. Mix and pump 5 bbls fresh water spacer, 102 cu ft of class B 15.6 ppg neat cement, 5 bbls of fresh water spacer. Displace cement to cement retainer using lease water. Do not exceed 2000 psi surface injection pressure. Pull out of cement retainer and reverse out hole to 9 ppg fresh water mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer.
- 3. PU to 4380' and spot 28 cu ft of class B 15.6 ppg neat cement from 4380'-4180'. Pull out of cement plug at less than 30 ft/min. WOC.
- 4. Tag top of cement plug with workstring. Cement top must be above 4230'. Spot additional cement as necessary. POH laying down all but 1245' of 2-7/8" workstring.
- 5. RIH with Servco K-mill or equivalent for 5-1/2", 14 lb/ft casing and drill collars as necessary on 2-7/8" workstring. Cut casing at 1245' and mill 1 ft to confirm cut. POH laving down all but 745' of workstring. Spear and recover 5-1/2", 14 lb/ft casing. If 5-1/2" casing string was recovered Go To Step No. 7.

- 6. If 5-1/2" casing string is cut but cannot be recovered. RIH with cement retainer on 500' of 2-3/8" CS Hvdril tubing and 2-7/8" workstring and set at 1195'. PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 493 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to top of cement retainer at 1195'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 164 cu ft. Go To Step No. 8.
- 7. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to 1245'. Fill hole from 1245' to surface with class B 15.6 ppg neat cement in 400' stages, laying down workstring while FOH. Calculated volume required to fill hole is 445 cu ft.
- 8. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spagetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded to the top of the plate:

Mobil E&P U.S., Inc. McElmo Creek Unit #R-23 Navajo Tribal Lease 14-20-603-359 2130' FSL, 660' FWL Sec. 16 - T41S - R25E San Juan Co., Utah

9. RDMO workover rig. Haul off salvaged equipment and clean location.
Notify Shirley Todd with Mobil at 918/688-2585 when work is
completed so that a Sundry Notice (Subsequent Report of
Abandonment, Form 3160-5) can be filed with the Bureau of Land
Management.

Mobil Operations Engineer: Sean S. Murphy
Office Phone: 303/565-2208
Home Phone: 303/564-9423

McElmo Creek Unit # R-23

- API # 43-037-1597	JOB OR AUTH. NO.
LOCATION 2/30' FSL, 660' FWL SEC	
SUBJECT Plug and Abando	
LEASE 14-20-603-359	By S. S. Murphy
	EXISTING
KB 4498'	
GL 4483'	
	13-36" 35.6# Armco Sw at
	85' cmt'd w/125 sxs +0
2	- surface
Top of Chible at 1145	
	8-8", 24# J-55 Csg at
	1353' cut'd w/900 sxs
	1 1 1 1
	to surface
	2/"
	2-38" 4.7# J-55 EUE 8rd
	Plastic Coated Tbg.
· ···· · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	Toc at 3748' (Calc.)
Top of Hermosa at 4280	
Baken FH Pkn at 5119	
Top of Ismay at 5130	
BakerFlon OFF Tool W/1.81" FAndik	7 3 jts 2-18, 4.7# J-55 BIE 8 Nd Thy
Baker B Downhole Shut-Off Valve -	(Maric Course)
Baker D' PKr W/Anchor	- PERFS
Latch at 5225'	25FF 5244-5248, 5251-5257
(Rotate to the right to release later)	
	5263-5276', 5344-5392'
	5395-5402' w/45PF
Hole Size: 7-1/8"	5-1/2", 14# J-55 Csg
	TD 5447' at 5480' contid w/ 300 sxs
	D 5480'

McElmo Creek Unit # R-23

- API # 43-037-15 9 77	JOB OR AUTH. NO.
LOCATION 2130' FSL, 660' FWL Sec 16-T415-R2	5E PAGE
SUBJECT Plug and Abandon	DATE 8/5ept/93
LEASE 14-20-603-359	By S. S. Murphy
PROPOSED	
KB 4498'	
64 44 83'	
	13-36", 35.6# Armco Sw at
	= 85' cmt'd w/125 sxs +0
	- surface
	Class B Cement Plug
Top of Chible at 1145'	0-1245'
	8- %", 24# J-55 Csg at
	1353' antid w/ 900 sxs
	to surface
	5-1/2 Casing out and recovered
	at 1245'
9 PPG Mud	
_ 1	
Toc 4180'	-Toc at 3748' (Calc.)
	Class B Coment Plug
Top of Hermosa at 4280	4180'-4380'(200)
	a Linear at
9 PPG Mud - 27	_ Cement Retainer at
Top of Ismay at 5130	50301
ar 3/30	
Baker 'D' Pkr W/Anchor	PERFS (SQZD)
William State of the state of t	
	5244-5248, 5251-5257
Class B Cement Plug	5263-5276', 5344-5392'
5030'- 5402'	
	5395-5402' w/4SPF
Hole Size: 7-18"	5-1/2", 14# J-55 Csg
	at 5480' contid w/ 300 sxs
TD 5480'	•

McElmo Creek Unit **R-23**Uneconomical Well REVISED

12037-15977 Sec 16 TAIS RASE

PLUG AND ABANDONMENT PROCEDURE

MOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

- 1. Notify Mark Helley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navaio EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
- MI workover rio. Load well with lease water. If well is not dead. use 10 opg brine. NU and PT BOP's. Pressure 5-1/2" casino to 1000 psi and bleed off three times to assist in retrieving packer. Pull 35.000 lbs tension over string weight and shear out Baker FH backer at 5119'. Rotate to the right 15 turns to release shap latch in Baker Model D packer at 5225 . Circulate hole to 10 ppg brine if necessary. POH laving down I-3/8". 4.7 lb/ft J-55 EUE 8rd plastic Install thread protectors on tubing while laving coated tubing. down. Transport tubing to Mobil's Aneth field pipe yard. If packer does not come free. RIH with jet cutter on wireline and cut 2-3/8" tubing below FH backer AT 5160° and try to pull backer free. If packer still does not come free. make a chemical cut 1 joint above packer. POH laying down tubing. PU overshot. jars . and drill collars on 2-7/8" workstring and jar packer out of hole. RIH with 4-3/4" bit without nozzles and casing scraper for 5-1/2". 14 lb/ft casing to 5150' (Optional cleanout brip). FOH. RU wireline unit. RIH with CIBP on wireline and set at 5144' EL. POH. wireline unit. RIH with workstring (2-3/8" CSH tailpipe optional) and tag top of CIBP. Spot 14 cu ft (96') of class B 15.6 pod neat cement on top of CIBP. Pull cut of cement and reverse out hole to 9 ppo <u>fresh</u> water mud having a minimum viscosity of 50 sec/ot containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer. NOTE: If welf is taking fluid after setting CIBP, cement plug will need to be tagged.
- 3. PU to 4380' and spot 28 cu ft of class B 15.5 ppg neat cement from 4380'-4180'. Pull out of cement plug at less than 30 ft/min. WOC.
- 4. Tao top of cament plug with workstring. Cement top must be above 4230'. Spot additional cement as necessary. POH laving down all but 1245' of 2-7/8" workstring.

5. RU wireline. RIH with 4" perforating dun loaded with penetrating charges at 4 SFF and perforate 1247/1997

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

OCT 0 4 1993

DIVISION OF OIL, GAS & MINING

MATE

Rest & A B draw

BY:

- 6. RIH with cement retainer on 2-7/8" workstring and set at 1195 (Nireline set dement retainer optional). PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 493 cu ft of class 8 15.6 ppg neat dement (includes 100 percent excess as required by SLM) and displace dement to dement retainer. Note: If get good uncontaminated dement returns, the pumping of dement can be discontinued. Pull out of dement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 2-7/8" workstring (2-3/8" CSH tailpide optional) to top of dement retainer at 1195'. Fill hole with class 8 15.6 ppg neat dement in 400' stages. Laying down workstring while POH. Calculated volume required to fill hole is 164 cu ft.
- 7. If top of casino strings are above ground level. cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spagetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded or stamped on the top of the plate:

Mobil E&P U.S.. Inc. McElmo Creek Unit #R-23 Navajo Tribal Lease 14-20-603-359 2130' FSL. 660' FWL Sec. 16 - F418 - R25E San Juan Co.. Utah

3. SDMO workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment. Form 3160-5) can be filed with the Bureau of Land Management.

Mobil Operations Engineer: Sean S. Murphy Office Phone: 303/545-2208

Home Phone: 303/564-9423

ENGINEERS CALCULATION ______EET

McElmo Creek Unit # R-23

	O Creek Unit # K-23
- API # 43-037-15 97 7	JOB OR AUTH. NO.
LOCATION 2130' FSL, 660' FWL SEC 16	5-T415-R25E PAGE
SUBJECT Plug and Abandon	DATE 8/Sept/93
LEASE 14-20-603-359	BY S. S. Murphy
E	XISTING
KB 4498'	
GL 4483'	
	13-3/8" 35.6# Armo sw at
	= 85' cmt'd w/125 sxs +0
	surface
<u> </u>	
Top of Chihle at 1145'	
	= 8- %", 24# J-55 Csg at
	1353' contid w/ 900 sxs
	to surface
	Plastic Coated Thg.
	Plastic Coated Thg.
· · · · ·	
- ···	
−	Toc at 3748' (Calc.)
Top of Hermosa at 4280 =	
Baker FH Pkn at 5119! 2	-
Top of Ismay at 5130	2:4 2-8 4.7# J-55 BUE 8Nd The
Baker B Doughole Shut-off Valve -	[Plastic Contai)
Baker 'D' PKr W/Anchor	PERFS
Latch at 5225'	
(Rotate to the right to release latch)	5244-5248, 5251-5257 5244-5248, 5251-5257
	5263-5276', 5344-5392'
	5395-5402' w/45PF
Hole Size: 7-18"	5-1/2" 14# J-55 Csg
•	> 5447' at 5480' contid w/ 300 sxs
_	5480'

ENGINEERS CALCULATION TET

McElmo Creek Unit # R-23

VICETMO CPEER UM	<u>if </u>
- API # 43-037-15977	JOB OR AUTH. NO.
LOCATION 2130' FSL, 660' FWL Sec 16-T415-R25E	PAGE
SUBJECT Plug and Abandon	DATE 8/Sept/93
LEASE 14-20-603-359	or S. S. Murphy
PROPOSED	
KB 4498'	
GL 4483'	
	- 13-36", 35.6# Armco Sw at
	85' contid w/125 sxs to
Cmt Retainer	surface
	- Class B Cement Plug
Top of Chible at 1145	0-1245'
	8-76", 24# J-55 Csg at
· · · · · · · · · · · · · · · · · · ·	1353 cm +1d m/ 900 sxs
ant .	to surface
	· -
9 PPG Mud>	take a second of the second of
	- ·
- · · · · · · · · · · · · · · · · · · ·	oc at 3748' (Calc.)
Top of Hermosa at 4280	ss B Cement Plug 30'-4380'(200')
4/8	30 - 4380 (200)
9 PPG Mud	
Fop of Ismay at 5130'	
_ c IBP at 5144 u/96'	
Baken 'D' Pkr w/Anchon	PERFS
	25PF 44-5248, 5257-5257
	2 ser 4ser 63-5276', 5344-5392'
53.9	95-5402' w/45PF
11/2 (2010 2/11)	V" w# T. SE Ce
	14# J-55 Csg
TD 5480'	5480' antid w/ 300 sxs
מאדר שו	

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No. 14-20-603-359

i. If Indian, Allottee or Tribe Name

	AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to dr	III or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	NAVAJO TRIBAL
USE APPLICATION FOR	A PERMIT— Tot such proposals	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT
1. Type of Well Oil Gas Well Other INJECTION 2. Name of Operator	INC	8. Well Name and No. R-23
MOBIL EXPLORATION & PRODUCING U.S.	INC.	9. API Well No.
3. Address and Telephone No.	(915) 688-2585	43-037-15977
P.O. BOX 633, MIDLAND TX 79702		10. Field and Pool, or Exploratory Area GREATER ANETH
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription)	11. County or Parish, State
2130' FSL, 660' FWL, SEC. 16, T41	S, R25E	11. County of Farish, State
		SAN JUAN, UTAH
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	X Abandonment	Change of Plans
Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing Water Shut-Off
X Final Abandonment Notice	Casing Repair Altering Casing Other	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well
		Completion or Recompletion Report and Log form.)
 Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true verti 	Il pertinent details, and give pertinent dates, including estimated date of startin cal depths for all markers and zones pertinent to this work.)*	ng any proposed work. If well is directionally drilled,
11/01 LEONARD BIXLER ON LOCATION -	MIRUPU - ATTEMPT TO FLOW DOWN WELL CIBP SET AT 5144 - SPOT W/20 SX (24 CU FT) SPOT28 SX (33 CU FT) CLASS B 1.18 YIELD 15.6	CLASS B 1.18 YIELD, 15.6 #/ #/GAL - PLUG FROM 4380 -
1407 - CMT RET AT 1320' - PUMP 300 \$	LKER – EPA, GARY YELLOWHAIR – EPA ON LOCAT SX CLASS B 1.18 YIELD, 15.6 #/GAL – CIRC GOOI 00' STAGES. DIG OUT WELL HEAD – CUT OFF W	D CMT TO PIT - FILL WELLBURE
WELD ON PLATE, EXTENSION & SURFACE	INFORMATION PLATE	, NECALVEID
		NOV 2 3 1002

NOV 2 3 1993

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct	Title ENVIRONMENTAL & REGULATORY TECH	Date 11/19/93
Signed S. BULLY OR SHIRLEY TODD	Title LIVERIOUNILITYAL & PLEASEATON TELEVI-	Date
(This space for Federal or State office use)		
Approved by Conditions of approval, if any:	Title	Date
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly	and willfully to make to any department or agency of the United States	any false, fictitious or frauduler